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2.	Letter and GAO Code 701034, Richard Davis, GAO, to William J. Perry, DOD, February 15, 1994
3.	Memo, Marcia J. Van Note, DOD/IG, for Distribution, subj: General Accounting Office (GAO) Letter Dated February 9, 1994, February 23, 1994
4.	Memo with Indorsement, Vaughn E. Schlunz, SAF/FMPF, for Distribution, subj: GAO Review Letter Dated February 15, 1994, "Records Management Procedures, February 24, 1994
5.	Memo with Addendum, Robert J. McCormick, SAF/AA, for Distribution, subj: GAO Review on Records Management Procedures Dealing with Weather Balloons, Unknown Aircraft, and Similar Crash Incidents, March 1, 1994
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- 9. Memo, Col Steve O. Ouzts, AF/XOWP, for SAF/AAZ, subj: GAO Review on Records Management Procedures Dealing with Weather Balloons, Unknown Aircraft, and Similar Crash Incidents . . ., March 9, 1994
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- 11. Memo with Attachment, Richard S. Rauschkolb, AFHRA/CC, for AF/HO, SAF/AAZ, subj: GAO Review on Records Management Procedures Dealing with Weather Balloons, Unknown Aircraft, and Similar Crash Incidents . . ., March 8, 1994
- **12.** Memo, with Attachments, Edward C. Mishler, HQ AFOSI/HO, for SAF/AAZ, subj: GAO Review on Records Management Procedures . . ., May 11, 1994
- 13. Records Searched
- **14.** Letter, Lt Col Thomas Badger, Jr., HQ/AAF, to Commanding General, AMC, subj: Issuance of Orders, June 5, 1947
- **15.** Appointment Book and Diary, Lt Gen Hoyt S. Vandenberg, July 7–9, [1947], and July 5–9, 1947
- 16. Fort Worth Star-Telegram, Photographs of Balloon Debris, [July 9, 1947]
- 17. Satement, Lt. Col. Sheridan D. Cavitt, USAF (Ret), May 24, 1994
- 18. Interview, Col Richard L. Weaver with Lt Col Sheridan D. Cavitt, USAF (Ret), [May 24, 1994]
- 19. Letters, Brig Gen E. O'Donnell to Commanding General AAF, July 8, 1946; Lt Col W.H. Congdon and Col D.P. Graul to Commanding General AMC, September 9, 1947; and Brig Gen Tom C. Rives to Commanding General AAF, September 10, 1947
- 20. Statement, Athelstan F. Spilhaus, June 3, 1994
- 21. Statement, Charles B. Moore, June 8, 1994, and Hieroglyphic and Balloon Train Drawings, August 28, 1992
- 22. Statement, Albert C. Trakowski, June 29, 1994
- 23. Interview, Col Jeffrey Butler and 1st Lt James McAndrew with Professor Charles B. Moore, June 8, 1994
- **24.** Interview, [Col Jeffrey Butler and 1st Lt James McAndrew with] Col Albert C. Trakowski, USAF (Ret), June 29, 1994
- 25. Drawing, NYU Cluster Flight No. 2

- 26. Photographs, Project MOGUL Balloon Trains
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# 32. Synopsis of Balloon Research Findings, with Memorandum for SAF/AAZ, Att: Colonel Richard L. Weaver, by James McAndrew, 1st Lt, USAFR

#### Attachments to the McAndrew Synopsis:

- 1. Fort Worth Star-Telegram, Photographs of Balloon Debris, [July 9, 1947]
- 2. Organizational Chart, Watson Laboratories, January 20, 1947
- 3. Drawing, NYU Cluster Flight No. 2
- 4. Illustrations, AN/CRT-1 Sonabuoy
- 5. Blueprint, Corner Reflector, ML-307C/AP Assembly
- **6.** Table No. 7, Summary of NYU Constant-Level Balloon Flights, November 20, 1946–September 9, 1947
- 7. Map of New Mexico
- 8. Illustration, Weather Balloon and Corner Reflector
- 9. Letter, Brig Gen E. O'Donnell to Commanding General AAF, July 8, 1946
- 10. Hieroglyphic Drawing, Charles B. Moore, August 28, 1992
- 11. Alamogordo News, "Fantasy of 'Flying Disc' Is Exlained Here: News Men Watch Army Radar Crew Launch 'Disc'," July 10, 1947

#### **Appendices** to the McAndrew Synopsis:

- 1. Roswell Daily Record, July 9, 1947
- 2. Interview, Col Richard L. Weaver with Lt Col Sheridan D. Cavitt, USAF (Ret), [May 24, 1994]
- 3. Statement, Irving Newton, July 21, 1994
- 4. Letter, Lt Col Edward A. Doty to Mr David Bushnell, March 3, 1959
- 5. Letter, Brig Gen E. O'Donnell to Commanding General AAF, July 8, 1946
- 6. Report, Maurice Ewing for General Carl Spaatz, "Long Range Sound Transmission in the Atmosphere," n.d.
- 7. Report, HQ Fitzwilliam Fwd, "Sonic Balloon Test Kwajalein," May 17, 1948

- 8. Memo, Brig Gen Tom C. Rives to Maj Gen Curtis LeMay, subj: Relief of Major R.T. Crane as Project Officer for MOGUL and TORRID, June 18, 1946
- 9. Memo, Maj Gen Curtis E. LeMay to Maj Gen L.C. Craigie, April 16, 1947
- 10. New York University, Constant Level Balloons, Final Report, March 1, 1951
- **11.** New York University, *Constant Level Balloons*, Section 1, *General*, November 15, 1949
- 12. New York University, Constant Level Balloons, Section 3, Summary of Flights, July 15, 1949
- 13. New York University, Technical Report No. 1, Constant Level Balloon, April 1, 1948
- 14. Athelstan F. Spilhaus, C.S. Schneider, C.B. Moore, "Controlled-Altitude Free Balloons," *Journal of Meteorology*, Vol. 5, August 1948
- 15. New York University, Progress Report No. 6, Constant Level Balloon, Section II, June 1947
- **16.** New York University, Special Report No. 1, Constant Level Balloon, May 1947
- 17. Personal Journal of Albert P. Crary
- 18. New York University, Progress Report [No. 7], Constant Level Balloon, Section II, July 1947
- 19. New York University, Progress Report No. 4, Radio Transmitting, Receiving and Recording System for Constant Level Balloon, [Section I], April 2, 1947
- **20.** Interview, Col Jeffrey Butler and 1st Lt James McAndrew with Professor Charles B. Moore, June 8, 1994
- **21.** Report, Holloman AFB, "Progress Summary Report on U.S.A.F. Guided Missile Test Activities," August 1, 1948
- 22. Interview, [Col Jeffrey Butler and 1st Lt James McAndrew with] Col Albert C.Trakowski, USAF (Ret., June 29, 1994
- 23. Report, Cambridge Field Station, Air Materiel Command, "Review of Air Materiel Command Geophysical Activities by Brigadier General D.N. Yates, and Staff, of the Air Weather Service," February 10, 1949
- 24. New York University, Constant Level Balloons, Section 2, Operations, January 31, 1949
- 25. Combined History, 509th Bomb Group and Roswell Army Airfield, September 1–30, 1947

Attachment to Colonel Weaver's Report of Air Force Research:

33. Mensuration Working Paper, with Drawing and Photo

### **Photograph Section**

General Carl A. Spaatz

Lt Gen Hoyt S. Vandenberg

General Nathan F. Twining

Mai Gen Curtis E. LeMay and Brig Gen Roger M. Ramey

Col William H. Blanchard

Maj Gen Clements McMullen

Brig Gen Donald N. Yates

Albert P. Crary and Phil Chantz

Dr. W. Maurice Ewing and Albert P. Crary

Dr. Althelstan F. Spilhaus and Col Marcellus Duffy

Capt Albert C. Trakowski and Dr. James Peoples

Charles B. Moore

U.S. Army GR-3 Sound Ranging Set, TNT Detonation, and Project MOGUL PT Boat

Project MOGUL Neoprene Balloons and Standard Meteorological Weather Balloons

MOGUL Balloon Train, AN/FMQ-1 Radiosonde Receiver/Recorder, and Project MOGUL

Microphones
Polyethylene Balloons

Project MOGUL Balloons

Seyfang Laboratory Balloons

Project MOGUL Balloon Train Components and Debris Recovered

Heights of Familiar Architectural Structures Relative to the Length of a Project MOGUL

**Balloon Train** 

Map of New Mexico